No.



8800078

TO ALL TO WHOM THESE PRESENTS SHALL COME; Agriffro Giosciences, Inc.

Colherens, there has been presented to the

Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED NOVEL VARIETY OF SEXUALLY REPRODUCED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(8) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLI-CANT(S) FOR THE TERM OF eighteen YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REPLENISHMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE RIGHT TO EX-UDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, MPORTING IT, OR EXPORTING IT, OR USING IT IN PRODUCING A HYBRID OR DIFFERENT Y THEREFROM, TO THE EXTENT PROVIDED BY THE PLANT VARIETY PROTECTION ACT. United States seed of this variety (1) shall be sold by variety name only as OF CERTIFIED SEED AND (2) SHALL CONFORM TO THE NUMBER OF GENERATIONS THE OWNER OF THE RIGHTS. (84 STAT. 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

WHEAT

'W2502'

In Lestimony Wahercot, I have hereunto set my hand and caused the seal of the Plant Tariety Protection Office to be affixed at the City of Washington, D.C. 30th day of the year of our Lord one thousand nine

hundred and ninety-two.

Variety Protection Office

APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE Introduction on reviews Introduction on reviews 2. TEMPORATY DESIGNATION 1. SEMPORATY DESIGNATION 1. SEMPORATION (CONDUCTION) 1. SEMPORATIO	U.S. DEPARTMENT		FORM APPROVED: OMB NO. 0581-0055							
1. NAME OF APPLICANTS HERE CONTROLLED STANC. HYCKEPSON FAMERICAGE PLANE BROOKERS INC. HYCKEPSON FAMERICAGE PLANE STANCE OF SAME, AND SECONDARY DESIGNATION SOLUTION BOX-2955 Mission, Kansas 66201 SCORIDA AND SWCIESE NAME 7. FAMILY NAME (Scenness) 6. GENUA AND SWCIESE NAME 7. FAMILY NAME (Scenness) 8. KIND NAME 8. KIND NAME 8. ADDEES OF SECONDARY DESIGNATION 1-1994 1-1994 1-1995 1-1096 1-1996 1-1996 1-1996 1-1996 1-1996 1-1997 1-1097 1-1097 1-1098 1-1996 1-1098 1-19	APPLICATION FOR PLANT VAR		if a plant variety protection be issued (7 U.S.C. 2421) hald confidential until ce	n certificate is to . Information is						
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5201 Johnson Drive P.O. Box-2955 Mission, Kansas 66201 303-532-3721 (CO) 913-384-4940 (KS) 800078 6. GENUS AND SECIES NAME Triticum aestivum 6. KIND NAME 8. KIND NAME 1=1984 2=1986 1-1984 2=1986 1-1984 2=1986 1-1984 2-1-1988 2-1-1988 2	AGRIPRO BLOSCIENCES INC	e rs Inc .								
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Hard Red Spring Wheat 1-1984	6. GENUS AND SPECIES NAME	7. FAMILY NA	AME (Botanical)	DATE						
Hard Red Spring Wheat 1-1984	Triticum aestivum	Gram	ineae	TIME 1:30	<u>8 8</u> .м. Пелм.					
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Delaware 10. Mand and address of applicant representatives). If any, to serve in this application and receive all papers R.E. Heiner P.O. Box 2955 P.O. Box 30 Mission, Kansas 66201 Berthoud, CO PHONE (Include area code). O. Box 30 Mission, Kansas 66201 Berthoud, CO PHONE (Include area code). O. Box 30 Berthoud, CO PHONE (Include area code). O. Box 30 Berthoud, CO Rehibit A, Origin and Breeding History of the Variety (Respection 52 of the Plant Variety Protection Act.) B. W. Exhibit D, Novelty Statement. C. W. Exhibit D, Additional Description of Variety (Request form from Plant Variety Protection Office.) C. W. Exhibit D, Additional Description of Variety (Request form from Plant Variety Protection Office.) C. W. Exhibit D, Additional Description of Variety (Request form from Plant Variety Protection Office.) C. W. Exhibit D, Additional Description of Variety Protection Act.) F. Does The APPLICANT(S) SECLIFY THAT SEED OF THIS VARIETY BE SOLD BY VARIETY NAME ONLY AS A CLASS OF CERTIFIED SEED? (See Section 31/0) of the Plant Variety Protection Act.) W. Vest No. W. H. W. W. H. C. W. H. W. W. H. W. W. H. C. W. H. W. W. H. C. W. H. W. W. H. C. W. H. W. W. H	partnership, association, etc.)	N," GIVE FORM	NOF ORGANIZATION (Corporation,	S 20000_						
Annuary 19, 1983 R.E. Heiner P.O. Box 2955 P.O. Box 30 Mission, Kansas 66201 Berthoud, CO PHONE (Include area code) p. O. Box 30 Mission, Kansas 66201 Berthoud, CO PHONE (Include area code) p. O. Box 30 Mission, Kansas 66201 Berthoud, CO PHONE (Include area code) p. O. Box 30 Mission, Kansas 66201 Berthoud, CO PHONE (Include area code) p. O. Box 30 Berthoud, CO Responsible (Code) and Breeding History of the Variety (See Section 23 of the Plant Variety Protection Act.) Mission, Kansas 66201 Berthoud, CO Responsible (Code) and Breeding History of the Variety (See Section 23 of the Plant Variety Protection Act.) Mission, Kansas 66201 Berthoud, CO Responsible (Code) and Breeding History of the Variety (See Section 23 of the Plant Variety Protection Act.) Exhibit R. Novelty Statement. Mission, See Section 21/0) of the Basis of Applicant's Ownership. Exhibit P. Quality and Agronomic Data Description of Variety Exhibit P. Quality and Agronomic Data Section 21/0) of the Basis of Applicant's Ownership. Exhibit P. Quality and Agronomic Data Section 21/0) of the Basis of Applicant's Ownership. Exhibit P. Quality and Agronomic Data Section 21/0) of the Basis of Applicant's Ownership. Exhibit P. Quality and Agronomic Data Section 21/0) of the Basis of Applicant's Ownership. Exhibit P. Quality and Agronomic Data Section 21/0) of the Basis of Applicant's Ownership. Exhibit P. Quality and Agronomic Data The Jeff Plant Applicant Section 21/0) of the Plant Variety Name Only as a Class of Centrified The Jeff Plant Applicant Section 21/0 of the Plant Variety Name Only as a Class of Centrified Mission Section 21/0 of the Plant Variety Mission Section 21/0 of the Plant Variety Protection Act. No Description Section 21/0 of the Plant Variety Section 21/0 of the Plant Variety Protection Act. The undersigned applicant(s) is (are) the owner(s) of this sexually reproduced novel plant variety, and believe(s) that the variety is distinct, uniform, and stable as required in Section 41, and is entitled to protectio				upril 2)/772					
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d. Exhibit D, Additional Description of Variety. e. Exhibit E, Statement of the Basis of Applicant's Ownership. Exhibit E, Statement of the Basis of Applicant's Ownership. SEED? (See Section 83(a) of the Plant Variety Protection Act) 15. DOES THE APPLICANT(S) SPECIEY THAT THIS VARIETY BE SEED (F THIS VERIETY BE SEED (See Section 83(a) of the Plant Variety Protection Act) 16. DOES THE APPLICANT(S) SPECIEY THAT THIS VARIETY BE LIMITED AS TO NUMBER OF SPNERATION? 17. If "Yes," answer items 16 and 17 below) No Sequence of the Applicant (S) PREVIOUSLY FILE FOR PROTECTION OF THE VARIETY IN THE U.S.? 18. DID THE APPLICANT(S) PREVIOUSLY FILE FOR PROTECTION OF THE VARIETY IN THE U.S.? Yes [If "Yes," give date] No 19. HAS THE VARIETY BEEN RELEASED, OFFERED FOR SALE, OR MARKETED IN THE U.S. OR OTHER COUNTRIES? Yes [If "Yes," give names of countries and dates) [In applicant(s) declare(s) that a viable sample of basic seeds of this variety will be furnished with the application and will be replenished upon request in accordance with such regulations as may be applicable. The undersigned applicant(s) is (are) the owner(s) of this sexually reproduced novel plant variety, and believe(s) that the variety is distinct, uniform, and stable as required in Section 41, and is entitled to protection under the provisions of Section 42 of the Plant Variety Protection Act. Applicant(s) is (are) informed that false representation herein can jeopardize protection and result in penalties. SIGNATURE OF APPLICANT DATE SIGNATURE OF APPLICANT DATE	P.O. BOX 2955 Mission, Kansas 66201 12.13.24.4940 a. W. Exhibit A, Origin and Breeding History of b. W. Exhibit B, Novelty Statement.	P.O. Box Berthoud, Berthoud, The Variety (Se	, CO PHONE (Include are 1791 IffED e Section 52 of the Plant Variety Pro	Busch Agricultus Busch Agricultus Busch Box 30	ral Resources Inc					
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FORM WA-470 (7-84) (Edition of 3-84 is obsolete.)	FORM WA-470 (7-84) (Edition of 3-84 is obsolete.)									

EXHIBIT A

ORIGIN AND BREEDING HISTORY OF W2502

W2502 originated from the cross 'MN7357/Marshall' which was made at Berthoud, Colorado in 1979. F2 selections from this cross were advanced in the greenhouse through the F4 generation by single seed descent. The original bulk was from a single F5 single seed descent. The original bulk was from a climax, head-row selection made at an AgriPro breeding nursery in Climax, Minnesota in 1983. This bulk was entered into yield trials in 1984 under the experimental number HS84-700. This line has been 1984 under the experimental number HS84-700. This line has been 1984 to 1987. It has also been tested in the Northern Uniform Regional Nursery in 1986 and 1987.

There were 384 head-rows grown in Berthoud, CO in 1985 and 347 were selected to produce breeder seed. Approximately 2,400 pounds of breeder seed was produced in 1986. An additional 132,840 pounds of foundation seed was produced in 1987 in Berthoud, Colorado.

W2502 is uniform and stable. Less than .5% of the plants have been rogued from the foundation field in 1987. Approximately 95% of the rogued variant plants were 3 to 15 centimeters taller than W2502. Less than .5% of these total variant plants may be encountered in subsequent generations.

EXHIBIT B.

NOVELTY STATEMENT

W2502 is most similar to the hard red spring wheats Wheaton and W2501. However, it can be easily distinguished by the following agronomic and morphological charateristics:

- W2502 has much stronger straw strength than Wheaton, (see Agronomic table page 1).
- W2502 is 1.3 days earlier heading than Wheaton, (see Agronomic table page 1).
- W2502 and W2501 both have acuminate type beaks, however W2502 has a much longer acuminate type beak, (see statistical data page 2).
- W2502 has a narrow glume width. W2501 has a midwide glume width, (see statistical data page 3).
- W2502 has a significantly shorter seed length than Wheaton,
 (see statistical data pages 4 and 5).

OVER-YEAR SUMMARY OF AGRIPRO AND OTHER SELECTED VARIETIES

(11) shoot	Prot.	12.6	13.0	13.1	12.9	13.1	ر ب	14.	, r.	12.8	13.4	14,9	14.4	13.6	14.6	13.9
(6) Foliar	Disease (1-9)		າເທ	5,3	4.3	4. 3	4.7	. 4 		, m	6.9	4.7	4.6	4.7	4.6	6.5
· · (6E)	Head. Days	58.0	57.2	56.7	58.0	59.0	59.0	57.5	56.7	60.2	55.4	57.0	57.2			
(7)	Lodg. (1-9)	4 ቢ	7.7	1.3	о. В	2.5	1.6	1.1	1.8	4.9	1.5		3.1			
(15)	(cm)	83.2	77.5	77.0	9.//	78.7	76.0	74.5	78.6	79.0	78.4	95.4	83.0	79.1	82.4	80.8
(13)	T. Wt. Lbs/Bu	60.6 78.7	57.5	ហ . ល (. D	59.3	57.2	58.4	59.1	58.5	57.9	59.3	59.5	59.0	59.7	59.5
	% of Wheaton	103	101	100	007	86	98	98	97	60	66	93	92	90	90	06
٠.			: "							٠						
	3-Yr.	74.4	73.0	72.5	7	1.1/	71.0	70.7	70.3	67.6	67.3	6.99	9.99	65.3	65.1	65.1
BU/A	87(5)	72.5	69.4	96.0 70.0	0 (200	68.1	64.5	68.2	63.4	64.3	66.5	63.6	61.5	63.0	64.2
VIELD - BU/A	86(4)	56.5	56.5	58.7 57.0	10	0.00	54.6	58°3	54.2	52.2	52.4	53.9			52.3	
	85(5)	90.6	89°.0	0.4 0.4	+ c	00.0	87.1	86.7	ອີດ	84.0	82.2	77.9	80.3	, a 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	77.5	9.9/
	Variety	Nordic Erik	W2501	Mason Wheaton	Murchall	Traingrant	Norseman	Telemark	HS84-873	ر ا	OTSO	Stoa	Celtic	4369 T	Len	cuard

) - indicates number of locations

page 2.

ANOVA TABLE FOR BEAK LENGTH

W2502 VS. W2501

SOURCE	<u>DF</u>	<u>MS</u>
TOTAL	49 102.022	
VAR ERROR	1 72.240 48 29.781	72.24028 0.62045

F-TEST = 116.433** CV = 5.400

LSD(5%) = 0.089

MEANS FOR EACH VARIETY

W2501 = 2.34 mmW2502 = 4.74 mm

**The difference in means of beak length are significantly different at the 1% probability level.

page 3.

ANOVA TABLE FOR GLUME WIDTH W2502 VS. W2501

SOURCE	<u>D</u> F	<u>ss</u>	<u>MS</u>
TOTAL	49	5.707	
VAR ERROR	1 48	3.277 2.430	3.27688 0.05063

F-TEST = 64.719** CV = 2.025

LSD(5%) = 0.025

MEANS FOR EACH VARIETY

W2501 = 3.57 mmW2502 = 3.06 mm

**The difference in means of glume width are significantly different at the 1% probability level.

page 4.

ANOVA TABLE FOR SEED LENGTH

W2502 VS. WHEATON (BERTHOUD, CO-1987)

SOURCE	<u>DF</u>	2	<u>55</u>	<u>MS</u>
TOTAL VAR ERROR	49 1 48	0.	.729 .541 .188	0.54099 0.06641

F-TEST = 8.146** CV = 0.731 LSD(5%) = 0.029

MEANS FOR EACH VARIETY

W2502: 5.83 mm
WHEATON: 6.03 mm

**The difference in means of seed length are significantly different at the 1% probability level.

page 5.

ANOVA TABLE FOR SEED LENGTH

W2502 VS. WHEATON (BORUP, MN-1987)

SOURCE	DF	SS	<u>MS</u>
TOTAL	49	4.557	
VAR	1	0.541	0.54059
ERROR	48	4.016	0.08367

F-TEST = 6.461* CV = 0.917LSD(5%) = 0.033

MEANS FOR EACH VARIETY WHEATON = 5.712 mm

W2502 = 5.504 mm

*The difference in means of seed length are significantly different at the 5% probability level.

U.S. DEPARTMENT OF AGRICULTURE AGRICULTURAL MARKETING SERVICE LIVESTOCK, MEAT, GRAIN & SEED DIVISION BELTSVILLE, MARYLAND 20705

EXHIBIT C (Wheat)

OBJECTIVE DESCRIPTION OF VARIETY WHEAT (TRITICUM SPP.)

INSTRUCTIONS: See Reverse.	WIISAI (TAI	7COM SFF./		<u> </u>
NAME OF APPLICANTIS			FOR OFFICIAL USE ON	LY
		PVPO		
ADDRESS (Street and No. or R.F.D. No., City, State	, and ZIP Code)		<u>8800078</u>	
			ETY NAME OR TEMPORARY SNATION	
		1		
Place the appropriate number that describes th	e varietal character	of this variety in the boxe:	s below.	
Place a zero in first box (e.g. 0 8 9 or 0				
1. KIND:	:			
		_	7	
1 1 = COMMON 2 = DURUM 3 = EMMER	4 = SPELT 5	POLISH 6 = POULARD	7 = CLUB	
2. TYPE:		<u> </u>		
		1 *	HER (Specify)	
1 1 = SPRING 2 = WINTER 3 = OTHER	Specify)	2 2 = HARD		
2 1 = WHITE 2 = RED 3 = OTHER (Spec	ily)			
3. SEASON - NUMBER OF DAYS FROM EMERGEN	CE TO:			
	•			•
0 5 1 FIRST FLOWERING		0 5 6 LAST FLOW	ERING	
4. MATURITY (50% Flowering):				
			· ·	
0 3 NO. OF DAYS EARLIER THAN		7 1 = ARTHUR 2	= SCOUT 3 = CHRIS	
		4 = LEMH! 5 =	NUGAINES 6 = LEEDS	7. May = 1 = 1
NO. OF DAYS LATER THAN		· .		7=Marshal
5. PLANT HEIGHT (From soil level to top of head)).			
			•	
0 7 7 см. нібн			:	
			·	·
CM. TALLER THAN			- SCOUT 3 = CHRIS	
	•] = ARTHUR 2	e scout 3 = CHRIS	
0 2 CM. SHORTER THAN		7 4 = LEMHI 5 =	NUGAINES 6 = LEEDS	7=Marshal
6. PLANT COLOR AT BOOTING (See reverse):		7. ANTHER COLOR:		
2 1 = YELLOW GREEN 2 = GREEN 3 =	BLUE GREEN	1 1 = YELLOW 2 = F	PURPLE	
8. STEM:				
			_	
1 Anthocyanin: 1 = ABSENT 2 = PRESEN	I T	2 Waxy bloom: 1 = ABS	ENT 2 = PRESENT	
Hairiness of last				
	RESENT	1 Internodes: 1 = HOLL	ow 2 = solid	
	· ·	CH INTERNODE	E LENGTH BETWEEN FLAG	LEAF
0 4 NO. OF NODES (Originating from node a	bove ground)	1 7 AND LEAF BEL		-
A AUDICI Et.	· · · · · · · · · · · · · · · · · · ·			· · · · · · · · · · · · · · · · · · ·
9. AURICLES:			•	
2 Anthocyanin: 1 = ABSENT 2 = PRESEN	IΤ	2 Hairiness: 1 = ABSE	NT 2 = PRESENT	
JA I EAR.				
10. LEAF:			•	
Flag leaf at] = ERECT 2 = RECU	URVED	2 Flag leaf: 1 = NOT T	TWISTED '2 =! TWISTED	
booting stage: 3 = OTHER (Specify):				
1 (6) (1) 1 - 1 - 1 - 1	2 - DAFFERNT	O Warry Mann of fire to	af sheath:] = ABSENT	2 = PRESENT
Hairs of first leaf sheath: 1 = ABSENT	2 = PRESENT	Z waxy bloom of fing ice	P1 P404/4.	
[1]	las lash		GTH (First leaf below fing !	(eaf):
1 2 MM. LEAF WIDTH (First leaf below if	:45 1041)	2 6 CM. LEAF LEN	MIN States tour name of the state of	

W25021 FORM GR-470-6 (REVERSE)			-8800078
3 Density: 1 = LAX	2 = oense 3=Middense	1-2 Shape: 1 = TAPERING	
'4 Awnedness: I = AWNL	ESS 2 = APICALLY AWNLETED 3	= AWNLETED ' 4 = AWNED	
Color at maturity: 5 =	WHITE 2 = YELLOW 3 = PINK 4 = BROWN 6 = BLACK 7 = OTHER	•	
68 CM. LENGTH		1 1 mm. WIOTH "	
12. GLUMES AT MATURITY 2 Length: 1 = SHORT (C) 3 = LONG (C)	A. 7 mm.) 2 = MEDIUM (CA. 8 mm.)	1 Fuith: 1 = NARROW (3 = WIDE (CA.	
2-3 Shoulder 1 = WANTIN shape: 4 = SQUARE		3 Beak: 1=08TUSE	2 = ACUTE 3 = ACUMINATE
13. COLEOPTILE COLOR:		14. SEEDLING ANTHOCYA	NIN:
1 1 = WHITE 2 = REC	3 = PURPLE	2 1 = ABSENT 2 =	PRESENT
15. JUVENILE PLANT GROY	TH HASIT:		
2 I = PROSTRATE	2 = SEMI-ERECT 3 = EREC	·	
I& SEED:	-		
1 Shape: I = OVATE	2 = OVAL 3 = ELLIPTICAL	1-2 Cheek: 1 = ROUNGE	2 = ANGULAR
2 Brush: I = SHORT	midlong 2=mesium 3=Long	2 Brush: I = NOT COL	**tendency to be LARED 2 = COLLARED
 	I = IVORY: 2 = FAWN 3 = LT. BROWN 4 = BROWN 5 = BLACK		
3 Color: I = WHITE	2 = AMBER 3 = RED 4 = PURPLE	5 = OTHER (Specify)	
5. 6 MM. LENGTH	3 3 MM. WIOTH	3 2 GM. PER 1000 S	EEDS
17. SEED CREASE:			
2 Vidth: = 60% OR LE	SS OF KERNEL 'WINOKA'	ا ما	LESS OF KERNEL 'SCOUT'
	S OF KERNEL 'CHRIS'	-	LESS OF KERNEL 'CHRIS'
	wide as Kernel (Lemmi) d, 1 = Susceptible, 2 = Resistanti 3=MO		
2 STEM RUST (Races) field r		STRIPE RUST	0 LOOSE SMUT
0 POWDERY MILDEW	0 BUNT	O OTHER (Specify)	•
19. INSECT: (0 = Not Tested	. 1 = Susceptible, 2 = Resistant) 3=MO	derately Susceptibl	e 4=Moderately Resistant
0 SAWFLY	O APHID (Bydv.)	O GREEN BUG	O CEREAL LEAF BEETLE
O OTHER (Specify)	HESSIAN FLY	0 GP 0 A	0 a 0 c
	RACES: (0 c 0 e	0 F
20. INDICATE WHICH YARIE	TY MOST CLOSELY RESEMBLES THAT S	UEMITTED:	
CHARACTER	NAME OF VARIETY	CHARACTER	NAME OF VARIETY
Plant tillering	W2501	Seed lize	W2501
Leaf size	W2501	Seed shape Caleophile elangation	W2501 W2501
Leaf color	W2501 W2501	Seeding digmentation	W2501
Cear ceuride		CTIONS	
GENERAL - The following pu	blications may be used as a reference aid		and procedures for completing this form:

- (a) L.T. Briggie and L. P. Reitz. 1963. Classification of Triticum Species and Theat Varieties Grown in the United States. Technical Builetin 1278, United States Department of Agriculture.
- (b) W.E. Walls, 1965, A Standardized Phenol Method for Testing Theat Seess for Varietal Purity, contribution No. 28 to the handbook of seed testing prepared by the Association of Official Seed Analysts. (See allacamenta)

EXHIBIT D.

ADDITIONAL BOTANICAL DESCRIPTION OF W2502

W2502 is a hard red spring wheat bred and developed by Nickerson American Plant Breeders Inc. but the exclusive rights to market, produce and distribute this variety in North America are held by Busch Agricultural Resources, Inc. Berthoud, Colorado. It was tested as experimental number HS84-700.

W2502 is a short semidwarf wheat with excellent straw strength and early to medium-early maturity. W2502 provides very good protection to stem and leaf rust and fair protection to the foliar leaf diseases.

Juvenile plant growth habit is semi-erect. Plant color at boot is green with a recurved flag leaf. Auricle hairs and auricle anthocyanin are present. Head shape is tapering to strap, middense, awned and white at maturity. Glumes are glabrous, midlong and narrow with oblique to round shoulders and acuminate beaks. Seed shape is ovate with angular to rounded cheeks. Seed of W2502 has a tendency to be collared, while the crease is midwide and midlong.

W2502 is primarily adapted to the high yield areas of the spring wheat region. This includes the states of North and South Dakota and Minnesota.

F-UNACCEPTABLE 1-4=UNACCEPTABLE

-1 !		TOTAL Appress) 	1 0 0	3 H 1 D 1 D 1 D	163-B) f 1 0 0 0	1 1 0 % t		U-90	01-E 77-E	164-B 163-B	1.051 1.051 1.051	H-181	 	00 00 00 00 00 00 00 00 00 00 00 00 00	160-E 160-E		163-B	163-E	, O .
FAGE		BAKE TORE		- 1		00000000000000000000000000000000000000		4				79-C 1		. ф	i		380-15 90-19 1,6		92-A 10	- 6-0E	
		MILL SCORE	1	α - το	74-0	74-0 74-0 74-0	1 1 0 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1					001-10 7.0-10 1.0-10		97. H-			7870 7970		71~C)-8 V	
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SEEDS 3 WHEAT		ABS.		63.0	64.0 65.0	63.0	65.0	64.0		66.0	0.39	67.0 68.0	67.0	86.3	0	2.00 2.00 2.00	8 8 8 5 0 6	5 0	63.0	64.7	1
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A HARD RED	.ITY	FLR	14%mb	0.416	0.43Z	0.349	0.337	0.391		0.425	0.419	0.387	0.350	0.396	0.410	0.00 444 444 444	0.00 0.00 0.00 0.00 0.00 0.00 0.00 0.0	7	0.040	0.402	***************************************
****	WHEATFLOUR GUALITY	FLR	14%mb	13.2	12.8 12.0	11.4	12,3	12.2		13.6 14.2	0.00	10 10 10	13.1	. 8.81	1		10: 10:		11.8	11.0]
	TFL0	FLR	×	73.4	71.0	71.1 69.2	დ დ.	71.1		74.1 71.6	71.1	66.7	9.69	9.02	1		70.6		2.79	70.4	
	WHE'A	WHT	14%mb			12.54 12.54 13.04	ග ල ෆ	ਜ. ਨ	 - - -	14 to 16			15.1	14.7	ì		10 20 11		- N 9	ο. Ο.	
		TEST WT.	1b/Bu	1		000 000	60.5	58.1	1	900. 900. 900.			0.03	59.1	ì		ស្រួល ស្រួល ស្រួល		n 0.70	(n (n (n)]
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99 80		SAMPLE NAME	1	HSS4-700 HSS4-700	HS84-700	HS84-700 HS84-700	H584-700	AVERAGE			7 2	Z	Z	AVERAGE		WIEATON WHEATON	WHEATON WHEATON			AVERAGE	
YEAR: 1986		YEAR	 			00 00 1	ທ H ທ						85 LEN		j [[00 00 00 01 22 23 23 23 23 24 24 25 25 25 25 25 25 25 25 25 25 25 25 25		•		

AGRIPRO WHEAT HARD RED SPRING WHEAT

YEAR: 198

PAGE 2.

					F	LOURA	WHEAT	QUAL	YII.				BAKING QUALITY											
									44 tru ##		(XOGRA)	 1	-								CRUM	B		
YEAR	VARIETY OR LINE	LOC	Test WT	WHT PROT	FLR PROT	HRI	ELR YLD		ASH	PK Time	HI	TOL	•	abs		MIX Time		LOAF VOL		GR	TX	COL	OVER ALL	-
		*******	15/Bu	14%ab	14%mb R		7.	Ř		min	N.U.	na	R	7.	R	min	R	cc	R	R	R	R	R	
87	HS84-0700	BL	60.6	12.2	11.3 5	- 58	72.7	2.	000	4.00	5.5	2.4	2	65.0	2	3.75	1	1030	5	4	4	3	40	b
. 87	HS84-0700	CX	58.1	12.7	11.9 4	54	74.1	2 .	000	3.50	5.5	2.6	2	65.0	2	3.50	1	1140	2	4	3	3	33	
87	HS84-0700	BP	58.5	12.4	11.45	56	72.2	2 .	000	3.50	5.5	2.1	3	64.0		3.50		1070	3	4	4		41	
87	HS84-0700	CS	59.6	12.0	11.3 5	60	71.6	3 .(000	4.50	4.5	2.9	1	62.0	5	4.50	3	1060	4	4	Ą	3	43	
	average		59.2	12.3	11.5 5	57	72.7	2 .	000	3.88	5.3	2.5	2	64.0	3	3.81	2	1075	4	4	4	3	39	
		:				:	<u> </u>												· ••• ••• ••					
87	WHEATON	BL	60.0	12.5	11.4 5	53	73.0	1 .0	000	3.50	5.5	2.2	3	65.0	2	3.50	1	1100	3	4	3	3	37	
87	WHEATON	CX	58.0		11.6 4		75.2			3.50		2.7		65.0				1050		4	Ą		: 37	
87	WHEATON	BP	58.5	13.1	11.1 5		72.9					1.1		65.0				1000			- 3		48	e gerige te
87	· ·	CS	57.9		10.9 6		70.5					2.2		63.0				1040	_	5	4	. 3	54	
	AVERAGE		58.6	12.6	11.3 5	55	72.9	2 .(000	3.69	5.4	2.1	4	64.5	3	3.69	2	1048	5	4	4	3	44	

page 4.

STEM RUST AND LEAF RUST RATING CEREAL RUST NURSERY* - 1986

VARIETY	STEM	RUST	LEAF	RUST
	당성병 싫어.			
ERA	5R	484 119	TI	₹ :
BUTTE	30MR	-MS	6(າຣ
WALDRON	10R-	MR	60S	:TR
W2502	TR		TI	₹

*ST. PAUL, MINNESOTA

EXHIBIT E.

STATEMENT OF THE BASIS OF APPLICANT'S OWNERSHIP

W2502 was bred and developed by Nickerson American Plant Breeders Inc. W2502 is owned by Nickerson American Plant Breeders Inc. but the exclusive rights to market, produce and distribute this variety in North America are held by Busch Agricultural Resources Inc. of Berthoud, Colorado.

EXHIBIT F. QUALITY AND AGRONOMIC DATA

Quality Data	•	•.	• •	•	٠	•	•	•	٠		•.	•	.pages 12
Agronomic Data			•	•		٠	•	•	•	•	•	•	.page 3.
Pathological Ratings.					•.			٠				•	.page 4.